



MEMORANDUM

To: Mayor and Members of Council

From: Alice Lam, Director of Operations

Prepared by: David Plant, Sr. Manager, Parks, Forestry & Horticulture, Operations Department
Barry Budhu, Sr. Manager, Roads, Survey & Utility, Operations Department

Date: July 13, 2021

Re: **Operations Winter Maintenance Updates**

RECOMMENDATIONS

1. That the memorandum “Operations Winter Maintenance Updates” dated on July 13th, 2021 be received; and,
2. That staff be authorized and directed to do all things necessary to give effect to this resolution.

BACKGROUND

This memo is to provide additional information following the direction of General Committee on May 10, 2021 and the resolution of Council on May 26, 2021 regarding Operations winter maintenance updates.

As per Council resolution 8.2.3 item 7, staff were directed to provide an outline of pathway maintenance similar to that of City sidewalk maintenance, the maintenance of narrow sidewalks, a listing of all City pathways, and a review for an additional outdoor ice-skating surface at Aaniin Community Centre or Milliken Mills Community Centre.

ALIGNING PATHWAY MAINTENANCE WITH MUNICIPAL SIDEWALKS

The following analysis is based on the proposed total of 29,501 meters of park asphalt pathways. The cost of the 48-72 hour service level is as outlined and approved in the Operations Winter Maintenance Update report as approved through Council on May 26, 2021. The cost to align the service level with the sidewalk network includes the purchase of two new sidewalk machines to cover the citywide pathway location inclusive of 4 seasonal operators to provide shift coverage

and 1 seasonal operator to share responsibilities between the feeder truck and fuel truck. The incremental cost to maintain pathway with the same service level as sidewalk is \$92,442.78.

Activity	Cost (48-72hr response – in house City Crew)	Cost (align service level to sidewalks)	Notes
Snow Clearing	\$102,795.64	\$65,238.42	Stand-alone routes c/w machines and operators 2 new machines @ \$32,619.21 each yearly cost
Repair cost asphalt	\$7,130.00	\$7,130.00	5% of annual pathway resurfacing program
Repair cost turf	\$11,785.65	\$11,785.65	5% of total length at \$7.99/m in house cost
Resources required	Existing	\$130,000.00	5 additional seasonal employees @ \$26,000.00 each
TOTAL COST	\$121,711.29*	\$214,154.07	

*As previously reported and approved through resolution 8.2.3 May 26, 2021.

MAINTENANCE OF NARROW SIDEWALKS

Sidewalks less than the standard 1.5m width are considered as narrow. For those portions of the network where narrow sidewalks are greater than or equal to 1.2 m, routes are plowed with a 1.2 m wide blade wherever possible. For sidewalks with a width of less than 1.2 m maintenance may be carried out via hand-shoveling by in-house staff depending on the site location. The operating cost of sidewalk greater than or equal to 1.2m would be same as normal sidewalks, while hand-shoveling would have significant impact due to staffing needs and the rate of productivity.

PROPOSED CITY PATHWAYS LIST

Please refer to the attached **Appendix A** for the list of proposed asphalt pathways.

Currently, the City has 35,731m of granular pathways, equivalent to an area of approximately 71,462 m².

Newer pathways are more likely to have been constructed with suitable aggregate base materials to allow them to be converted to asphalt. Older granular pathways which are narrower may require additional base materials which will be subject to condition assessment. Staff estimate that approximately 25% will require additional base materials. The approximate cost to convert granular pathways to asphalt pathways is outlined in the following table.

Activity	Unit cost/m2	Area m2	Total cost	Notes
Grade/pave 75% granular pathways no base required	\$23.85	53,596.50	\$1,278,276.53	Condition assessment required
Install 100mm base materials and 75mm asphalt on 25% of the granular pathway network	\$50.79	8,932.75	\$453,694.37	Condition assessment required
Mobilize	\$590.00/site		\$35,400.00	60 sites
Construction safety fence	\$26.28/m	480.00	\$12,614.40	8m/site fence to close off entrance points
TOTAL			\$1,779,985.30	

ADDITIONAL OUTDOOR ICE SKATING SURFACE

For the development of an additional key skating surface at either Aaniin Park or Milliken Mills Park, the following criteria was applied:

1. The site has or can be fitted with a winterized water supply
2. The site has a dedicated parking area not simply on-street parking
3. The site preferably has access to public transit
4. The site has an area of level ground where the construction of a skating facility would not negatively impact existing site amenities
5. The geographic location corresponds to the other selections to provide Citywide access
6. The site does not conflict with existing community volunteer ice rink locations

Staff reviewed both sites based on the above criteria and recommend the additional skating location at Milliken Mills Park per the attached **Appendix C**. The costs related to this additional location are as follows:

Year 1: approximately \$11,000.00 required for infrastructure and materials, winter water upgrade, wood and materials plus liner and hoses;

Year 2-5: approximately \$1,375.00 required for yearly materials.

Appendix A: Pathway Locations 2021

Appendix C: Location of Milliken Mills Park